

CM WHAT IS CLAIMED IS:

1. An electrophoretic display device of a cell structure, comprising: at least two electrodes, fixing surfaces each associated with one of said at least two electrodes, an electrophoretic layer disposed in the cell and comprising an insulating liquid and colored charged particles disposed in the electrophoretic layer, and voltage application means for applying a voltage between the electrodes thereby causing migration of the colored charged particles toward and collective attachment onto one of the fixing surfaces; wherein at least one of the fixing surfaces and the colored charged particles is provided with an adhesive layer allowing repetitive attachment thereto and separation therefrom of the colored charged particles.

2. A display device according to Claim 1, wherein said adhesive layer comprises a polymer having a glass transition temperature (Tg) of -35 °C to +35 °C and comprising at least one polymer species selected from the group consisting of poly(meth)acrylate esters, poly(meth)acrylic acid, poly(meth)acrylonitrile, poly(meth)acrylamide, polyvinyl esters and polyvinyl ethers.

3. A display device according to Claim 1,

wherein said fixing surfaces are each given surface of one of said at least two electrodes.

4. A display device according to Claim 5 wherein said insulating liquid has a volumetric resistivity of at least 10^{12} ohm.cm.

5. A display device according to Claim 4 wherein said two electrodes are oppositely disposed in the cell structure so as to allow vertical movement of the colored charged particles between the electrodes.

6. A display device according to Claim 5 wherein said two electrodes are disposed on an identical plane in the cell structure so as to allow horizontal movement parallel to the plane of the colored charged particles.

7. An electrophoretic display device structure, comprising: at least two electrodes, each associated with one of said fixing surfaces, an electrophoretic layer disposed in the cell and comprising an insulating liquid and charged particles disposed in the electrophoretic layer, and voltage application means for applying voltage between the electrodes thereby causing

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of the colored charged particles between the
electrodes.

6. A display device according to Claim 1,
15 wherein said two electrodes are disposed on an
identical plane in the cell structure so as to allow
horizontal movement parallel to the plane of the
colored charged particles.

20 7. An electrophoretic display device of a cell structure, comprising: at least two electrodes, fixing surfaces each associated with one of said at least two electrodes, an electrophoretic layer disposed in the cell and comprising an insulating liquid and colored
25 charged particles disposed in the electrophoretic layer, and voltage application means for applying a voltage between the electrodes thereby causing

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migration of the color
collective attachment
wherein the fixing su
charged film having a
5 polarity opposite to
particles.

8. A display de
wherein said charged
10 surfaces given by the

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